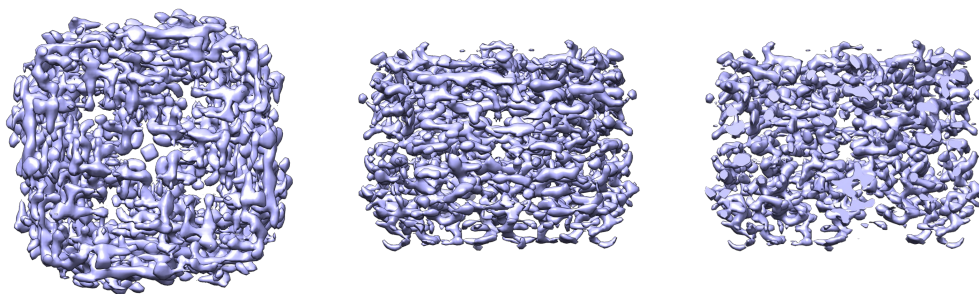
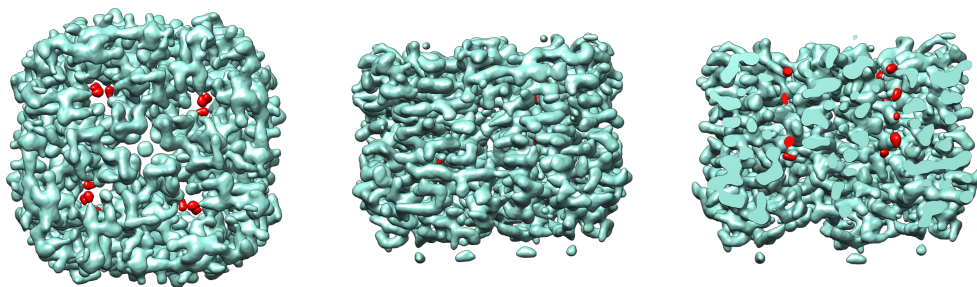


**Figure 1.** Map of AQP9 in DDM at 2.7-Å resolution obtained with data collected with a Krios at the Rockefeller Cryo-EM Resource Center equipped with a K3 camera. The density map is shown in pale red and density representing water in the channel is shown as bright red. Note that individual water molecules are not resolved, which we believe is due to the absence of a native lipid environment.



**Figure 2.** Representative map of AQP9 in nanodiscs obtained with data collected with a Krios equipped with a K3 camera (similar maps were obtained with three Independent data sets by two different expert electron microscopists). The density map is in purple and no density could be assigned to water molecules. The reason for the failure to obtain an interpretable density map remains unclear.



**Figure 3.** Map of AQP9 in nanodiscs at 2.1-Å resolution obtained with data collected with Krios 7 at NYSBC equipped with a Falcon 4 camera. The density map is shown in pale red and density representing water in the channel is shown as bright red. Note that individual water molecules in the channel are well resolved.